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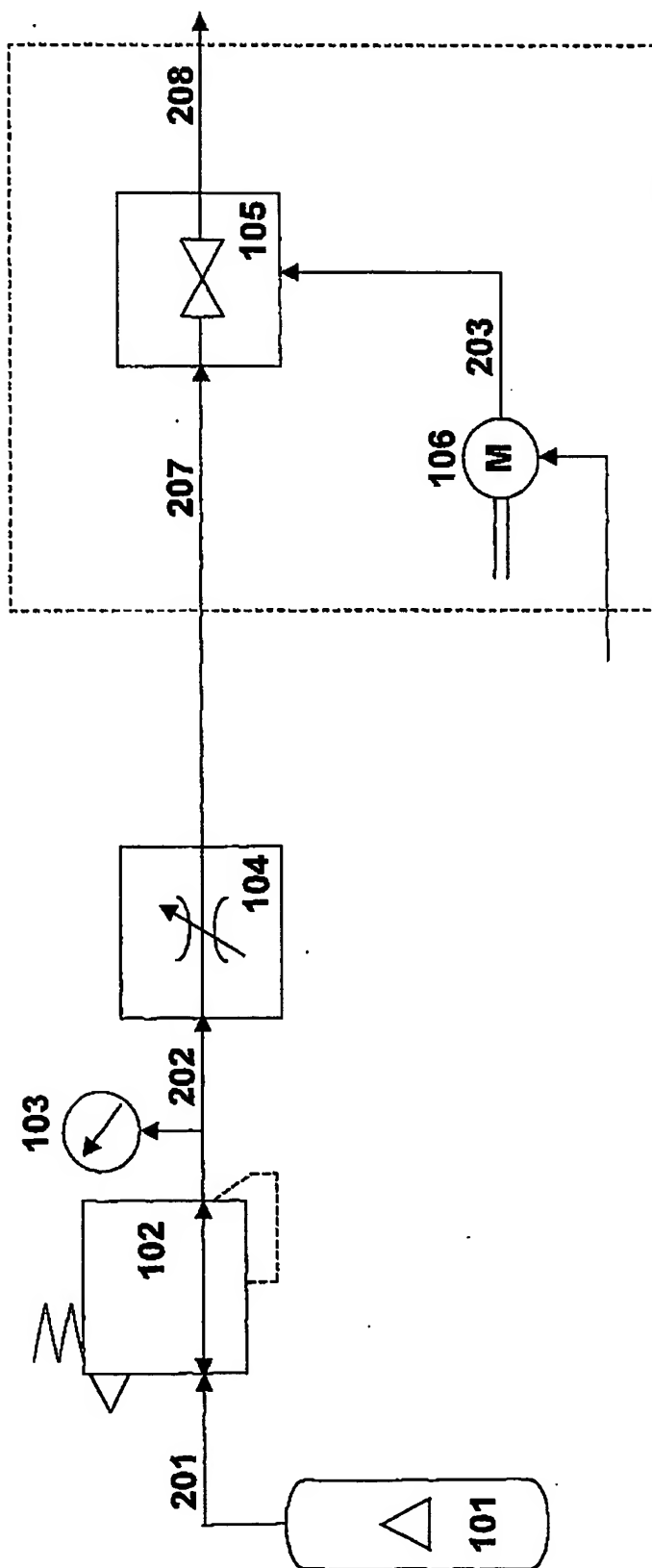


Fig. 1  
Prior art

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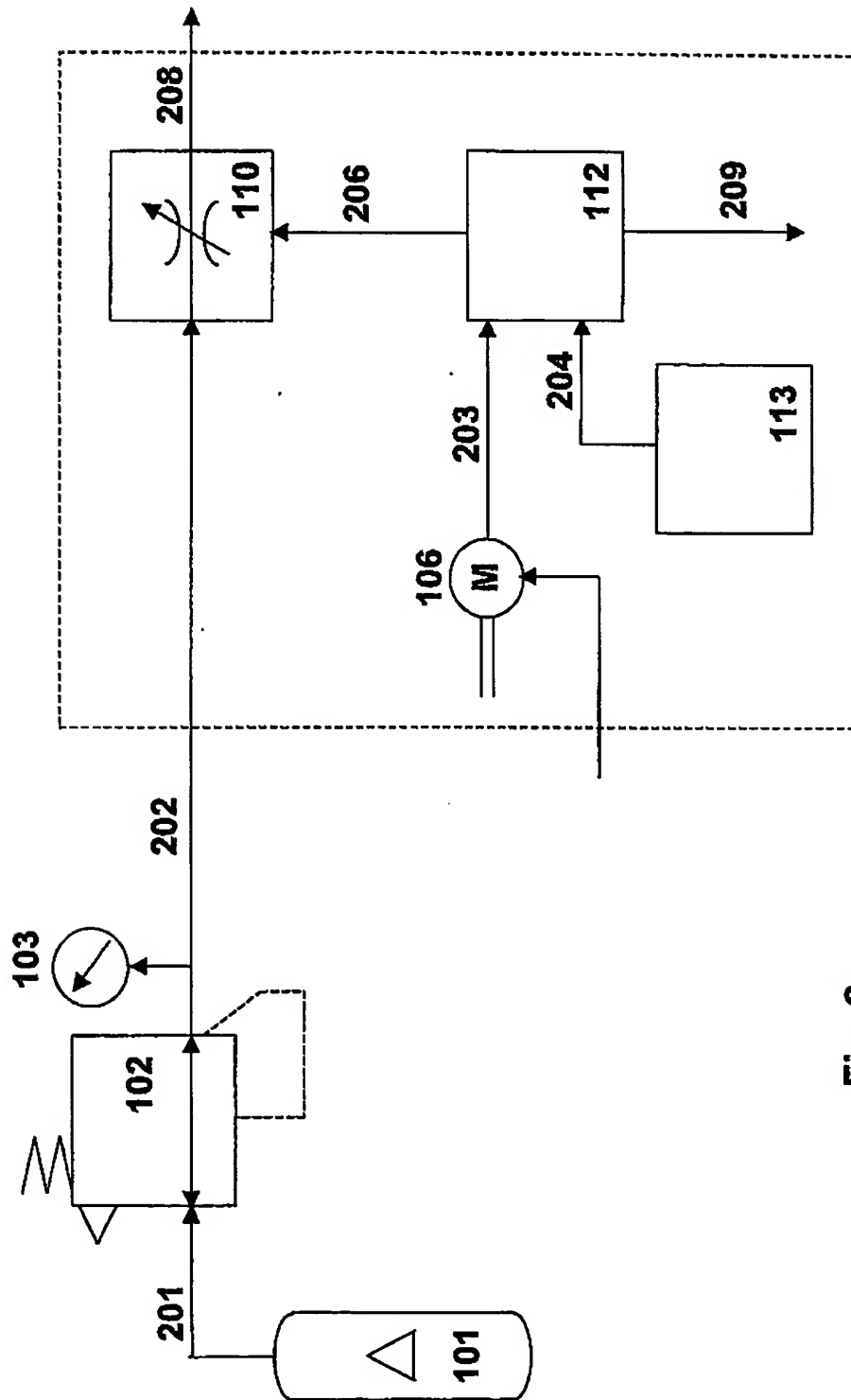


Fig. 2

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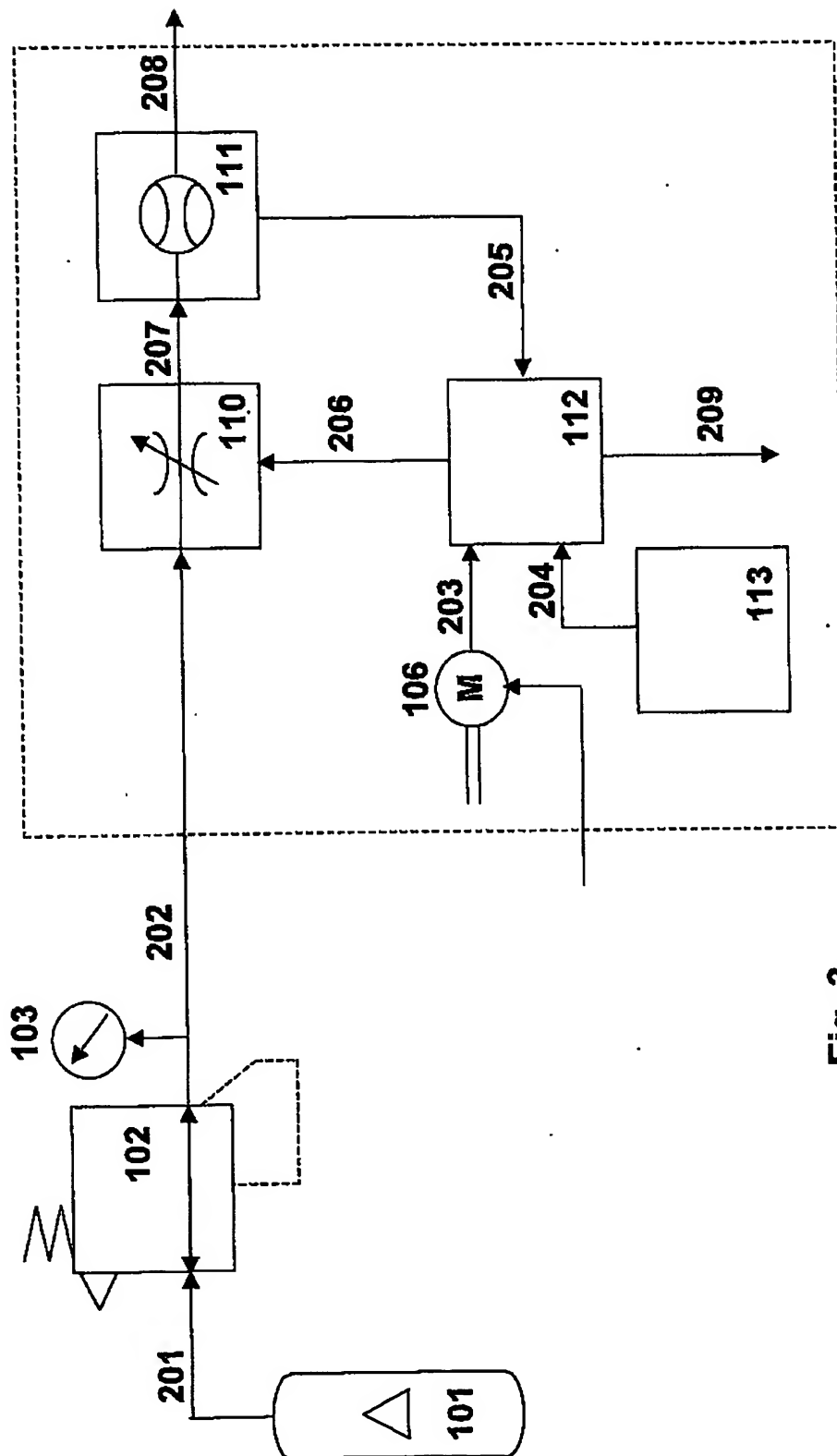


Fig. 3

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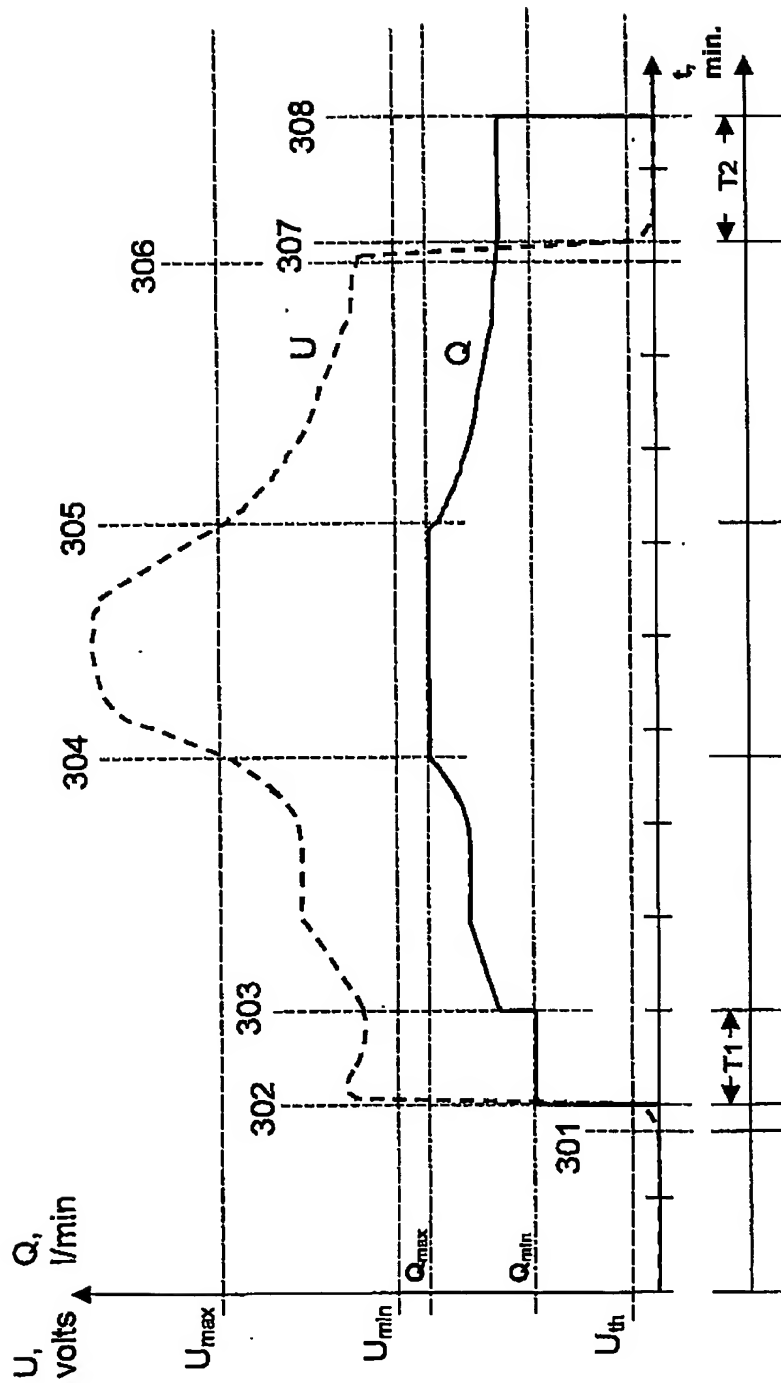


Fig. 4

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Control unit

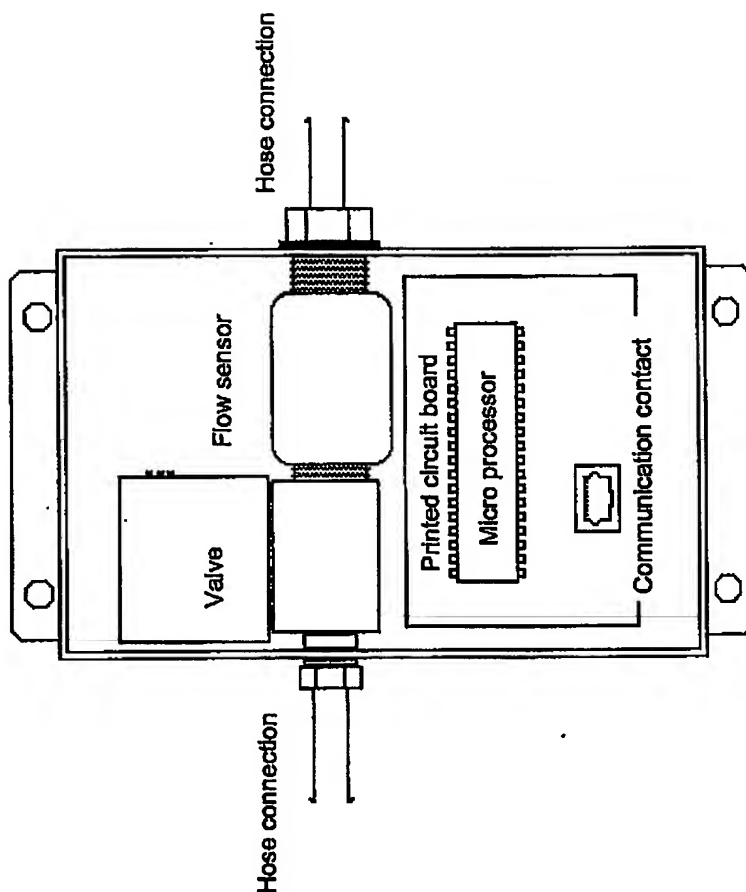


Fig. 5

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Text2

Fetch factory setting

Fetch standard

Save as standard

Limiting currents for max/min gas amount

Lower limit

Upper limit

Start threshold

Text2

Text2

Text2

Text2

Amount of gas for upper/lower current levels

Minimum

Maximum

Text2

Text2

Text2

Text2

Gas control for start/stop

Start

Stop

Text2

Text2

Text2

Text2

Fig. 6

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$R1 = 510 \text{ ohm}$   $R2 = 27 \text{ kohm}$   $R3 = 18 \text{ kohm}$   $R4 \text{ \& } R5 = 2 \text{ kohm}$   
 $P1, P2 \text{ \& } P3 = 4.7 \text{ kohm}$ ,  $C1 = 100 \text{ nF}$ ,  $C2 = 1 \mu\text{F}$ ,  $C3 = 4.7 \text{ nF}$ ,  $C4 = 100 \mu\text{F}$   
 $DZ1 = 4.7 \text{ V}$ ,  $DZ2 = 24 \text{ V}$

Valve solenoid is connected between K1 & K2  
 Operating voltage (max 50V, min 24V) is applied  
 between +U and earth  
 Control Voltage (max 24V) is applied  
 between Us and earth

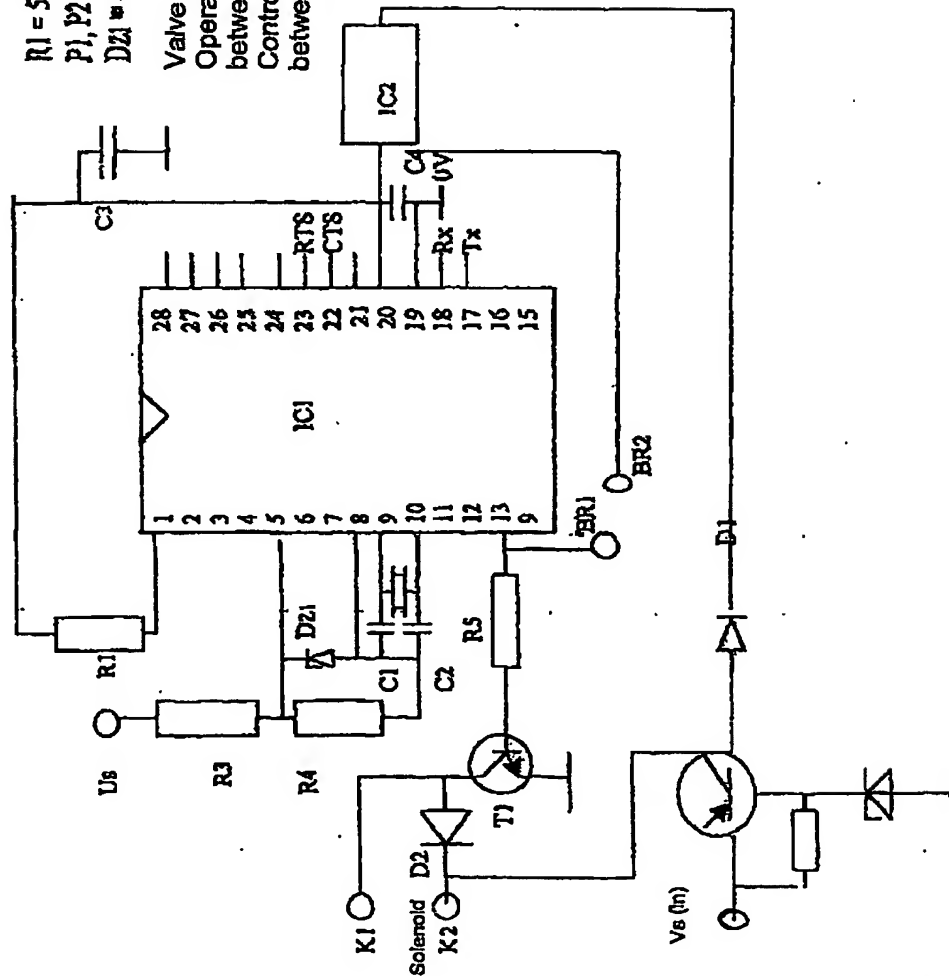


Fig. 7

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